

Application No. 10/700,483  
Attorney Docket: NEC03P166-RIa (WAK.119)

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**AMENDMENTS TO THE CLAIMS:**

1. (Currently Amended) A method of collecting information used for adjustments with an information collecting server in a radio communication system connected to at least one mobile radio terminal for performing user communications, comprising:

in said mobile radio terminal,

~~monitoring a communication status of user communication and a communication connection using a traffic channel, wherein said communication status corresponds to whether or not the mobile radio terminal has an existing communication connection using a traffic channel, which satisfies predetermined criteria;~~

detecting as a trigger when a change of said communication status has satisfied a predetermined condition;

acquiring a reception status of a radio signal when said trigger is detected;

acquiring a coordinate position of said mobile radio terminal; and

sending measured information including said reception status and said

coordinate position to said information collecting ~~server, server, and~~

~~in said information collecting server;~~

~~recording said measured information received from said mobile radio terminal;~~

2. (Previously Presented) A method according to claim 1, wherein said predetermined condition comprises an occurrence of a forced disconnection of the user communication.

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3. (Previously Presented) A method according to claim 1, wherein said predetermined condition comprises an occurrence of a handover failure.

4. (Previously Presented) A method according to claim 1, wherein said predetermined condition comprises a lowering of a throughput of said user communication below a predetermined threshold value.

5. (Original) A method according to claim 1, wherein said predetermined condition comprises a call which is made.

6. (Currently Amended) A method according to claim 1, further ~~comprising the steps of comprising:~~

in said information collecting server, sending value information indicative of a value given for said measured information, which is provided to said mobile radio terminal when said measured information is received; and

in said mobile radio terminal, displaying the value indicated by said value information when said value information is received.

7. (Original) A method according to claim 1, wherein said radio communication system comprises a CDMA radio communication system.

8. (Currently Amended) A method of collecting information used for adjustments with an information collecting server in a radio communication system connected to at least one

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mobile radio terminal for performing user communication, comprising:

in said information collecting server, sending ~~trigger information serving as a~~  
~~measuring~~ a trigger command simultaneously to the at least one mobile radio terminal;

in said mobile radio terminal, in response to said trigger command:

~~when said trigger information is received,~~ acquiring a reception status of a  
radio signal;

acquiring a coordinate position of said mobile radio terminal; and

sending measured information including said reception status and said  
coordinate position to said information collecting server; and

~~in said information collecting server,~~

recording said measured information received from said mobile radio terminal.

9. (Currently Amended) A method according to claim 8, wherein said information  
collecting server sends said ~~trigger information~~ trigger command simultaneously to the at least one  
mobile radio terminal based on a load status on a radio circuit.

10. (Previously Presented) A method according to claim 8, further comprising:  
in said information collecting server, sending value information indicative of a value  
given for said measured information, which is provided to said mobile radio terminal when  
said measured information is received; and

in said mobile radio terminal, displaying the value indicated by said value information  
when said value information is received.

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11. (Original) A method according to claim 8, wherein said radio communication system comprises a CDMA radio communication system.

12. (Currently Amended) A method of collecting information used for adjustments with an information collecting server in a radio communication system connected to at least one mobile radio terminal for performing user communications, comprising:

in said information collecting server, sending ~~trigger information serving as a~~  
~~measuring~~ a trigger command simultaneously to the at least one mobile radio terminal;

in said mobile radio terminal, ~~terminal~~:

monitoring a communication status of ~~user communication~~ a communication  
connection using a traffic channel, wherein said communication status corresponds to  
whether or not the mobile radio terminal has an existing communication connection using a  
traffic channel, which satisfies predetermined criteria; and

detecting as a trigger when a change of said communication status has  
satisfied a predetermined condition; and

when one of said trigger ~~information~~ command is received and said trigger is  
~~detected~~ detected;

acquiring a reception status of a radio signal;

acquiring a coordinate position of said mobile radio terminal; and

sending measured information including said reception status and said  
coordinate position to said information collecting server ~~server~~; and

~~in said information collecting server,~~

~~recording said measured information received from said mobile radio terminal.~~

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13. (Previously Presented) A method according to claim 12, wherein said predetermined condition comprises an occurrence of a forced disconnection of the user communication.
14. (Previously Presented) A method according to claim 12, wherein said predetermined condition comprises an occurrence of a handover failure.
15. (Previously Presented) A method according to claim 12, wherein said predetermined condition comprises a lowering of a throughput of said user communication below a predetermined threshold value.
16. (Original) A method according to claim 12, wherein said predetermined condition comprises a call which is made.
17. (Currently Amended) A method according to claim 12, wherein said information collecting server sends said trigger ~~information~~ command simultaneously to the at least one mobile radio terminal based on a load status on a radio circuit.
18. (Previously Presented) A method according to claim 12, further comprising:
  - in said information collecting server, sending value information indicative of a value given for said measured information, which is provided to said mobile radio terminal when said measured information is received; and
  - in said mobile radio terminal, displaying the value indicated by said value information

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when said value information is received.

19. (Original) A method according to claim 12, wherein said radio communication system comprises a CDMA radio communication system.

20. (Currently Amended) A system for collecting information used for adjustments in a radio communication system for performing user communication, comprising:

at least one mobile radio terminal that monitors a communication status of user communications, a communication connection using a traffic channel, wherein said communication status corresponds to whether or not the mobile radio terminal has an existing communication connection using a traffic channel, which satisfies predetermined criteria, and if a trigger is detected when a change of said communication status has satisfied a predetermined condition, ~~acquiring~~acquires a reception status of a radio signal and a coordinate position of the mobile radio terminal, and ~~sending~~sends measured information including said reception status and said coordinate position; and

an information collecting server that receives said measured information from said mobile radio terminal ~~terminal~~.

~~and recording~~wherein the measured information which has been ~~received~~received is recorded as collected information.

21. (Previously Presented) A system according to claim 20, wherein said predetermined condition comprises an occurrence of a forced disconnection of the user communication.

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22. (Previously Presented) A system according to claim 20, wherein said predetermined condition comprises an occurrence of a handover failure.

23. (Previously Presented) A system according to claim 20, wherein said predetermined condition comprises a lowering of a throughput of said user communication below a predetermined threshold value.

24. (Original) A system according to claim 20, wherein said predetermined condition comprises a call which is made.

25. (Previously Presented) A system according to claim 20, wherein,  
when said measured information is received, said information collecting server sends value information indicative of a value given for said measured information, which is provided to said mobile radio terminal, and

wherein when said value information is received, said mobile radio terminal displays the value indicated by said value information.

26. (Original) A system according to claim 20, wherein said radio communication system comprises a CDMA radio communication system.

27. (Currently Amended) A system for collecting information used for adjustments in a radio communication system for performing user communication, comprising:

at least one mobile radio terminal for, ~~if a trigger information as a measuring~~ when a

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trigger command is received, acquiring a reception status of a radio signal and a coordinate position of the mobile radio ~~terminal~~terminal and sending measured information including said reception status and said coordinate position; and

an information collecting server that sends said trigger ~~information~~command simultaneously to the at least one mobile radio terminal, and recording the measured information which has been received from said mobile radio terminal.

28. (Currently Amended) A system according to claim 27, wherein said information collecting server sends said trigger ~~information~~command simultaneously to the at least one mobile radio terminal based on a load status on a radio circuit.

29. (Previously Presented) A system according to claim 27, wherein  
when said measured information is received, said information collecting server sends value information indicative of a value given for said measured information, which is provided to said mobile radio terminal, and  
wherein, when said value information is received, said mobile radio terminal displays the value indicated by said value information.

30. (Original) A system according to claim 27, wherein said radio communication system comprises a CDMA radio communication system.

31. (Currently Amended) A system for collecting information used for adjustments in a radio communication system for performing a user communication, comprising:



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at least one mobile radio terminal that monitors a communication status of user ~~communications~~; a communication connection using a traffic channel, wherein said communication status corresponds to whether or not the mobile radio terminal has an existing communication connection using a traffic channel, which satisfies predetermined criteria, and if a trigger is detected when a change of said communication status has satisfied one of a predetermined condition ~~and trigger information as a measuring trigger~~ or a trigger command is received, acquiring a reception status of a radio signal and a coordinate position of the mobile radio terminal, and sending measured information including said reception status and said coordinate position; and

an information collecting server that sends said trigger ~~information~~ command simultaneously to the at least one mobile radio terminal, and recording the measured information which has been received from said mobile radio terminal.

32. (Previously Presented) A system according to claim 31, wherein said predetermined condition comprises an occurrence of a forced disconnection of the user communication.

33. (Previously Presented) A system according to claim 31, wherein said predetermined condition comprises an occurrence of a handover failure.

34. (Previously Presented) A system according to claim 31, wherein said predetermined condition comprises a lowering of a throughput of said user communication below a predetermined threshold value.

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35. (Original) A system according to claim 31, wherein said predetermined condition comprises a call which is made.

36. (Currently Amended) A system according to claim 31, wherein said information collecting server sends said ~~trigger information~~ command simultaneously to the at least one mobile radio terminal based on a load status on a radio circuit.

37. (Previously Presented) A system according to claim 31,  
wherein, when said measured information is received, said information collecting server sends value information indicative of a value given for said measured information which is provided to said mobile radio terminal, and  
wherein, when said value information is received, said mobile radio terminal displays the value indicated by said value information.

38. (Original) A system according to claim 31, wherein said radio communication system comprises a CDMA radio communication system.

39. (Currently Amended) A mobile radio terminal for sending information used for adjustments in a radio communication system for performing user communications to an information collecting server, comprising:

a communication status acquisition unit that acquires a communication status of user ~~communication~~ a communication connection using a traffic channel, wherein said communication status corresponds to whether or not the mobile radio terminal has an existing

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communication connection using a traffic channel, which satisfies predetermined criteria;

a reception status acquisition unit that acquires a reception status of a radio signal;

a positional information acquisition unit that acquires a coordinate position of the mobile radio terminal; and

a control unit, triggerable when a change of said communication status acquired by said communication status acquisition unit has satisfied a predetermined condition, that instructs said reception status acquisition unit to acquire said reception status and instructing said positional information acquisition unit to acquire said coordinate position, and, when said reception status and said coordinate position are acquired, sending measured information including said reception status and said coordinate position to said information collecting server.

40. (Previously Presented) A mobile radio terminal according to claim 39, wherein said predetermined condition comprises an occurrence of a forced disconnection of the user communication.

41. (Previously Presented) A mobile radio terminal according to claim 39, wherein said predetermined condition comprises an occurrence of a handover failure.

42. (Previously Presented) A mobile radio terminal according to claim 39, wherein said predetermined condition comprises a lowering of a throughput of said user communication below a predetermined threshold value.

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43. (Original) A mobile radio terminal according to claim 39, wherein said predetermined condition comprises a call which is made.

44. (Previously Presented) A mobile radio terminal according to claim 39,  
wherein, when said measured information is received, said information collecting server sends value information indicative of a value given for said measured information, which is provided to said mobile radio terminal, and  
wherein, when said value information is received, said mobile radio terminal displays the value indicated by said value information.

45. (Original) A mobile radio terminal according to claim 39, wherein said radio communication system comprises a CDMA radio communication system.

46. (Currently amended) A mobile radio terminal for sending information used for adjustments in a radio communication system for performing a user communication to an information collecting server, comprising:

a trigger information reception unit that receives a trigger command information as a measuring trigger from said information collecting server;

a reception status acquisition unit that acquires a reception status of a radio signal;

a positional information acquisition unit that acquires a coordinate position of the mobile radio terminal; and

a control unit, triggerable when said trigger information command is received by said

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trigger information reception unit, that instructs said reception status acquisition unit to acquire said reception status and instructing said positional information acquisition unit to acquire said coordinate position, and, when said reception status and said coordinate position are acquired, sending measured information including said reception status and said coordinate position to said information collecting server.

47. (Previously Presented) A mobile radio terminal according to claim 46,

wherein when said measured information is received, said information collecting server sends value information indicative of a value given for said measured information which is provided, to said mobile radio terminal, and

wherein when said value information is received, said mobile radio terminal displays the value indicated by said value information.

48. (Original) A mobile radio terminal according to claim 46, wherein said radio communication system comprises a CDMA radio communication system.

49. (Currently Amended) A mobile radio terminal for sending information used for adjustments in a radio communication system for performing user communications to an information collecting server, comprising:

a communication status acquisition unit that acquires a communication status of user ~~communication~~; a communication connection using a traffic channel, wherein said communication status corresponds to whether or not the mobile radio terminal has an existing communication connection using a traffic channel, which satisfies predetermined criteria;

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a trigger information reception unit that receives a trigger command ~~information as a~~  
~~measuring trigger~~ from said information collecting server;

a reception status acquisition unit that acquires a reception status of a radio signal;

a positional information acquisition unit that acquires a coordinate position of the  
mobile radio terminal; and

a control unit, triggerable when said communication status acquired by said  
communication status acquisition unit has satisfied one of a predetermined condition and said  
trigger information command is received by said trigger information reception unit, that  
instructs said reception status acquisition unit to acquire said reception status and instructing  
said positional information acquisition unit to acquire said coordinate position, and, when  
said reception status and said coordinate position are acquired, sending measured information  
including said reception status and said coordinate position to said information collecting  
server.

50. (Previously Presented) A mobile radio terminal according to claim 49, wherein said  
predetermined condition comprises an occurrence of a forced disconnection of the user  
communication.

51. (Previously Presented) A mobile radio terminal according to claim 49, wherein said  
predetermined condition comprises an occurrence of a handover failure.

52. (Previously Presented) A mobile radio terminal according to claim 49, wherein said  
predetermined condition comprises a lowering of a throughput of said user communication

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below a predetermined threshold value.

53. (Original) A mobile radio terminal according to claim 49, wherein said predetermined condition comprises a call which is made.

54. (Previously Presented) A mobile radio terminal according to claim 49, wherein when said measured information is received, said information collecting server sends value information indicative of a value given for said measured information, which is provided to said mobile radio terminal, and wherein, when said value information is received, said mobile radio terminal displays the value indicated by said value information.

55. (Original) A mobile radio terminal according to claim 49, wherein said radio communication system comprises a CDMA radio communication

56. (Previously Presented) The method according to claim 1, wherein said acquiring a reception status further includes acquiring at least one of a received signal quality and a received signal intensity of a common channel.

57. (Previously Presented) The method according to claim 1, wherein said acquiring said coordinate position information further includes acquiring coordinate information of said mobile radio terminal by using GPS (Global Positioning System).

58. (Previously Presented) The method according to claim 8, wherein said acquiring a

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reception status further includes acquiring at least one of a received signal quality and a received signal intensity of a common channel.

59. (Previously Presented) The method according to claim 8, wherein said acquiring said coordinate position information further includes acquiring coordinate information of said mobile radio terminal by using GPS (Global Positioning System).

60. (Previously Presented) The method according to claim 12, wherein said acquiring a reception status further includes acquiring at least one of a received signal quality and a received signal intensity of a common channel.

61. (Previously Presented) The method according to claim 12, wherein said acquiring said coordinate position information further includes acquiring coordinate information of said mobile radio terminal by using GPS (Global Positioning System).

62. (Previously Presented) The system according to claim 20, wherein said acquiring a reception status further includes acquiring at least one of a received signal quality and a received signal intensity of a common channel.

63. (Previously Presented) The system according to claim 20, wherein said acquiring said coordinate position information further includes acquiring coordinate information of said mobile radio terminal by using GPS (Global Positioning System).



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64. (Previously Presented) The system according to claim 27, wherein said acquiring a reception status further includes acquiring at least one of a received signal quality and a received signal intensity of a common channel.

65. (Previously Presented) The system according to claim 27, wherein said acquiring said coordinate position information further includes acquiring coordinate information of said mobile radio terminal by using GPS (Global Positioning System).

66. (Previously Presented) The system according to claim 31, wherein said acquiring a reception status further includes acquiring at least one of a received signal quality and a received signal intensity of a common channel.

67. (Previously Presented) The system according to claim 31, wherein said acquiring said coordinate position information further includes acquiring coordinate information of said mobile radio terminal by using GPS (Global Positioning System).

68. (Previously Presented) The mobile radio terminal according to claim 39, wherein said acquiring a reception status further includes acquiring at least one of a received signal quality and a received signal intensity of a common channel.

69. (Previously Presented) The mobile radio terminal according to claim 39, wherein said acquiring said coordinate position information further includes acquiring coordinate information of said mobile radio terminal by using GPS (Global Positioning System).

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70. (Previously Presented) The mobile radio terminal according to claim 46, wherein said acquiring a reception status further includes acquiring at least one of a received signal quality and a received signal intensity of a common channel.

71. (Previously Presented) The mobile radio terminal according to claim 46, wherein said acquiring said coordinate position information further includes acquiring coordinate information of said mobile radio terminal by using GPS (Global Positioning System).

72. (Previously Presented) The mobile radio terminal according to claim 49, wherein said acquiring a reception status further includes acquiring at least one of a received signal quality and a received signal intensity of a common channel.

73. (Previously Presented) The mobile radio terminal according to claim 49, wherein said acquiring said coordinate position information further includes acquiring coordinate information of said mobile radio terminal by using GPS (Global Positioning System).